Light emission properties of nanoparticles doped with transition metal and rare earth ions

Influence of molecular chain orientation on optical and carrier transport properties of polymer blends

Digitization of the optical fields in information optics

Stimulated emission and optical gain in nitride-based compounds and quantum structures

Transverse patterns of mini-cavity optical parametric oscillator with seed injection

Sensitivity of a spectral device based on acousto-optic tunable filter

Highly photosensitive nanocrystalline PbTe films

A 60 GHz microwave resonance investigation of shallowly formed InAs quantum dots embedded in GaAs

Generation of coherent terahertz radiation due to optical-phonon emission assisted transit-time resonance in quantum wells and heterolayers

Variation of the properties of 4H-SiC radiation detectors upon irradiation by 24 GeV protons

Analysis of photoelectric properties and current transient behaviour in TiBr

Differences and likenesses between demands to media intended for image and hologram recording

Influence of energy bands distortion on non-steady-state photo-induced electromotive force in semiconductors

GaAs/AlAs quantum wells for selective terahertz sensing: study by differential surface photovoltage spectroscopy

Measurement of the magnetic component of microwave electromagnetic radiation via sub-harmonic mixing

Synthesis and properties of PbSe_{x}S_{1-x} alloyed nanocrystals

Synthesis and characterization of silver nanoparticles

Some properties of a room temperature THz detection array

Dot-matrix holographic recording in amorphous chalcogenide films

Optical and terahertz spectroscopy of doped GaAs/AlAs quantum wells

Patterning of ITO with picosecond lasers

GaAs/AIGaAs structures with [delta]-doped layer for microwave detection

Free-hole spin precession trajectories in A3B5 compounds

Destruction of the nano-size solid particles under femtosecond laser pulse action

Ripple formation at laser ablation of chromium thin film

Mapping of differently doped InP wafers by nanosecond and picosecond four-wave mixing techniques

Deeper insight into non-equilibrium carrier dynamics in InP:Fe: experimental and modeling

Compact multifunctional skin spectrometry set-up

Fundamentals and main features of the advanced reflection noncontact two-fibre optopairs displacement sensor

Investigation and comparison of modeling and experimental results for the fiber optopair reflection noncontact displacement sensor
Radiation of novel type emitted by microchip laser
Nanosecond and picosecond pulse transmission in optical fibres
Phase shift detection of surface plasmon using spectral ellipsometer
Chemical control over surface atomic structure and electronic properties of III-V semiconductors
Surface plasmon resonance method: new applications to sorption kinetics analysis

Studies of composite system of iron porphyrin immobilized on aminosilanized Si
Phonon sidebands in photoluminescence of beryllium [delta]-doped GaAs/AlAs multiple quantum wells
Formation of low energy tails in silicon [delta]-doped GaAs/AlAs multiple quantum wells
Group-delay dispersion measurements of laser mirrors using white-light interferometry
Effect of strong electric field on electrical characteristics of two-terminal porous silicon structures
Spectrophotometric and Raman spectroscopic characterization of ALD grown TiO\textsubscript{2} thin films
Electric field effect on electrical memory of inhomogeneously strained La\textsubscript{0.67}Ca\textsubscript{0.33}MnO\textsubscript{3} films
Influence of annealing on atomic layer deposited Cr\textsubscript{2}O\textsubscript{3} thin films
Quantum well interface broadening effects
Modification of band gap in surface layer in Cd\textsubscript{1-x}Zn\textsubscript{x}Te by YAG:Nd\textsuperscript{3+} laser radiation
Plasma injection as techniques to study charge carrier transport and recombination in organic solar cells and LED's
Sub-bandgap light hologram recording in amorphous chalcogenides
Formation of carbon coatings employing plasma torch from argon-acetylene gas mixture

Magnetic circular dichroism of iron porphyrin
Heavy-ion induced damage and reduction of dislocation mobility in LiF single crystals

Geometrical structure of small Co nanoparticles
Film's forming materials for laser optics
Laser-induced damage threshold measurements of high reflecting dielectric layers
Optical characterization of the LiInS\textsubscript{2} and LiInSe\textsubscript{2} crystals

Dielectric response to low and infra-low frequency in layered ferroelectrics
Optical properties of the undoped and SiO\textsubscript{x}]-doped DLC films
Dielectric properties of KDP crystal damaged by laser beam
Optimization of HfO\textsubscript{2}, Al\textsubscript{2}O\textsubscript{3} and SiO\textsubscript{2} deposition leading to advanced UV optical coatings with low extinction

Improvement of optical properties and radiation resistance of optical coatings based on Nb\textsubscript{5}O\textsubscript{2} and Ta\textsubscript{5}O\textsubscript{2}